

CASCADE CHARTER TOWNSHIP

CITIZENS PFAS COMMITTEE MEETING

April 13, 2023 at 4:00pm

Cascade Library – Wisner Center

2780 Jacksmith Dr.

Grand Rapids, MI 49546

- ARTICLE 1.** Call the Meeting to Order
- ARTICLE 2.** Approval of the Agenda
- ARTICLE 3.** Acknowledge Visitors & Public Comment
- ARTICLE 4.** Approval of the Minutes of the February 2, 2023 Meeting
- ARTICLE 5.** Update on Public Water Extension Project – Prein & Newhof
- ARTICLE 6.** Legal Update
- ARTICLE 7.** General PFAS Update
- ARTICLE 8.** Roundtable / Q&A
- ARTICLE 9.** Public Comment
- ARTICLE 10.** Adjournment

CASCADE CHARTER TOWNSHIP
CITIZENS PFAS COMMITTEE MEETING

February 2, 2023 at 4:00pm

Kent District Library– Wisner Center
2870 Jacksmith Ave SE
Grand Rapids, MI 49546

Members Present: Ben Greemann, John Lipford, Patti Baldwin, Kris White

Members Absent: Chris Noordyke, Grace Lesperance

Others Present: Township Manager (TM) Ben Swayze, Engineer Aric Thorne, Management Office Administrative Assistant Jessica Stine, Walter Bujak of the Kent County Board of Commissioners, Laurie Reminga

ARTICLE 1. Call to Order: Meeting was called to order at 4:07 pm.

ARTICLE 2. Approval of the Agenda

Motion by Member Baldwin, supported by Member White to approve the agenda.
Motion carried.

ARTICLE 3. Acknowledge Visitors & Public Comment

There were not any visitors who wished to comment.

ARTICLE 4. Approval of Minutes from the 1/19/2023 meeting

The spelling of Laurie Reminga's name was corrected throughout the minutes. Member Lipford stated that, in Article 7, counsel is spelled incorrectly and, in the fifth sentence of the same article, 'thing' should be 'think'. Bujak noted that in article 7 it should say, 'before he was sworn in' rather than 'before he was elected'. Motion by member Baldwin, supported by Member Lipford to approve the 1/19/2023 meeting minutes with the aforementioned changes. Motion carried.

ARTICLE 6. Legal Update – Statute of Limitations and Private Lawsuits

Articles 6 and 7 were moved to take place before article 5, as the construction update would be much shorter and had been covered at length during the previous meeting.

TM Swayze and Supervisor Lesperance met with Doug Van Essen, the township's lawyer, who said that, in the strictest sense, the township will need to act on litigation by May in order to file before the statute of limitations runs out. Van Essen will attend the February 22, 2023 Township Board meeting to discuss this with the board. He will also be writing a letter to send to affected residents explaining the statute of limitations and when they would need to act if they wanted to file litigation against the Gerald R Ford Airport. Van Essen has indicated that individual lawsuits had been filed against Wolverine.

Member Baldwin was concerned that they wouldn't know the effects of the stigma from PFAS contamination until they tried to sell their houses. Member Lipford said that housing prices are up due to a lack of inventory but if a glut of houses become available and prices are pushed down, that is when they would be much more likely to see the damage to the housing prices in PFAS areas. He believed that the statute of limitations may start there because the damage wasn't initially obvious.

TM Swayze said the Van Essen told him that many cases with Wolverine Worldwide were being settled but they have yet to hear of any making it all the way to court. Detrimental health effects due to PFAS contamination are very difficult to prove.

Member Lipford said that the statute of limitations on diminution is three years and that would end in May 2023. Plainfield used a New Jersey law firm and Cascade may want to look into who they had used.

TM Swayze said that Van Essen wasn't aware of any PFAS cases currently underway at the airport. They will consider sending out a mailing and eblast with information about litigation and the length of the statute of limitations. The airport will likely push litigation on to the FAA.

Member Lipford asked if it was legal for ARPA funding to be tied to the releasing of claims against the airport and TM Swayze believes there are rules against ARPA funds being used to settle debts. Van Essen is meeting with Kent County to check into this.

ARTICLE 7. Disclosure Requirements

Member Baldwin said that she met with Resident Reminga and new neighbors who didn't know anything about the water extension project or PFAS prior to buying the house. Their house is a green dot on the township's residential PFAS sampling map (meaning that their results were a non-detect for PFOA and PFOS) but the house next door to them was a red dot (exceedance of PFOA > 8ppt or PFOS > 16ppt).

The State of Michigan Seller Disclosure Act, Act 92 of 1993, 565.959 Additional disclosures, section 9, allows cities, townships, and counties to require their own disclosures related to the sale of houses and Reminga believes Cascade Township should require its residents to disclose if their property was in a PFAS project area. Member Lipford suggested this should already be covered in the 'environmental problems' section of disclosures, but that opens the door for many other types of disclosures to be required. TM Swayze shared that Van Essen told him he thought there was a disclosure requirement built into the ground water use ordinance passed in Plainfield Township when they were determining remediation from Wolverine. TM Swayze asked if realtors would be against this type of disclosure and Reminga did not believe they would be.

TM Swayze spoke about well capping and said that the township doesn't have any problem financially with wells being capped as the money is available for PFAS remediation. The agreement between EGLE and Wolverine on institutional control was able to be brokered because the area needed the money for PFAS remediation. Because the township doesn't need the airport to pay for anything, the airport doesn't have any leverage to ask the township to pass a ground water ordinance and there isn't a way to require residents to cap their wells and move onto city water without an ordinance.

Member Lipford left the meeting at 4:54pm.

ARTICLE 5. Update on Public Water Extension Project

TM Swayze is still working on an updated schedule for the PFAS project. An eblast will go out to all Phase 1 residents the next Monday and a mailing will be sent to all Phase 1 residents shortly afterwards. Engineer Thorne is working with Spalding DeDecker on remediation.

ARTICLE 8. Roundtable/Q&A

There weren't any additional questions at that time.

ARTICLE 9. Public Comment

Bujak said that he attended to represent his constituents, listen to their discussion, and learn about the PFAS contamination.

ARTICLE 10. Adjournment

Motion was made by Member White to adjourn. Supported by Member Greenman. Meeting adjourned at 5:01pm.

Approved by the Citizens PFAS Committee – TBD

Ben Swayze

From: Kevin Koster <kkoster@preinnewhof.com>
Sent: Wednesday, April 12, 2023 10:49 AM
To: McCaul, Jeff; Ben Swayze
Cc: Jernberg, Wayne; Stegehuis, Jack; Payton Novak
Subject: Cascade Phase I Update

Jeff, as per your request.

Listed below is the up-to-date info on Phase I Services.

- We have received 90 quotes for residents on existing main (only 95 possible)
 - 80 new services placed.
 - 60 of those abandoned their wells.
 - 1 well abandonment only, no service (existing customer)
 - 1 quote pending approval that came in this morning.
 - 10.1k average price
- We also have 99 quotes for Phase I residents, so a good start to that process.

Kevin

Kevin Koster, P.E.

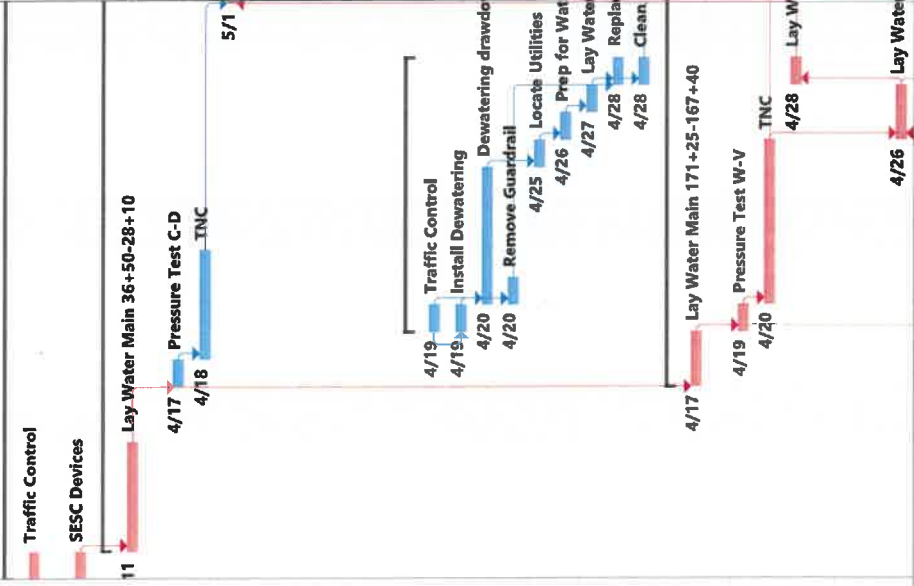
Prein&Newhof

t. 616-364-8491 d. 616-588-9019

f. 616-364-6955 c. 616-893-8418

[Website](#) | [Blog](#) | [LinkedIn](#)

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Successors	Resource Names
1	Task	Cascade Water Main	117 days	Mon 4/10/23	Fri 9/22/23			
2	Task	Submittals	1 day	Mon 4/10/23	Mon 4/10/23			
14	Task	Phase 1	68 days	Mon 4/10/23	Mon 7/17/23			
15	Task	Traffic Control	1 day	Mon 4/10/23	Mon 4/10/23		16SS	Traffic
16	Task	SESC Devices	1 day	Mon 4/10/23	Mon 4/10/23	15SS	18	Road
17	Task	Burger Drive 36+50-28+10	31 days	Tue 4/11/23	Tue 5/23/23		38,19	Pipe +
18	Task	Lay Water Main 36+50-28+10	4 days	Tue 4/11/23	Fri 4/14/23	16		
19	Task	Pressure Test C-D	1 day	Mon 4/17/23	Mon 4/17/23	18	20	Pipe Testing
20	Task	TNC	4 days	Tue 4/18/23	Fri 4/21/23	19	21	City
21	Task	Water Services (13)	3 days	Mon 5/1/23	Wed 5/3/23	41,20	49	Pipe, DeWitt
22	Task	Install Storm on Burger	2 days	Wed 5/10/23	Thu 5/11/23	62	48,23	Pipe +
23	Task	Grade Driveways	1 day	Fri 5/12/23	Fri 5/12/23	22,63	24,66	Road
24	Task	Pave Driveways (HMA)	1 day	Mon 5/15/23	Mon 5/15/23	23,64	25,53	Rieth-Riley
25	Task	Topsoil Restoration	2 days	Tue 5/16/23	Wed 5/17/23	24,66	26,50	Road
26	Task	Landscaping	4 days	Thu 5/18/23	Tue 5/23/23	25,66	67	NERC
27	Task	Burger Drive Bayou Crossing 28+10 - 23+50	8 days	Wed 4/19/23	Fri 4/28/23		30,29SS	Traffic
28	Task	Traffic Control	1 day	Wed 4/19/23	Wed 4/19/23	28SS	30,31	Pipe 2
29	Task	Install Dewatering	1 day	Wed 4/19/23	Wed 4/19/23	28SS	32	
30	Task	Dewatering drawdown time	3 days	Thu 4/20/23	Mon 4/24/23	29,28	35	Dale Dukas
31	Task	Remove Guardrail	1 day	Thu 4/20/23	Thu 4/20/23	29	33	Pipe 2+
32	Task	Locate Utilities	1 day	Tue 4/25/23	Tue 4/25/23	30	34	Pipe 2+
33	Task	Prep for Water Main	1 day	Wed 4/26/23	Wed 4/26/23	32	36,35	Pipe 2+
34	Task	Lay Water Main	1 day	Thu 4/27/23	Thu 4/27/23	33	97	Dale Dukas
35	Task	Replace Guardrail	1 day	Fri 4/28/23	Fri 4/28/23	34,31		Pipe 2+
36	Task	Clean Up	1 day	Fri 4/28/23	Fri 4/28/23	34		
37	Task	Tripoli Street 171+25-164+40	36 days	Mon 4/17/23	Tue 6/6/23		59,39	Pipe +
38	Task	Lay Water Main 171+25-167+40	2 days	Mon 4/17/23	Tue 4/18/23	18		
39	Task	Pressure Test W-V	1 day	Wed 4/19/23	Wed 4/19/23	38	40	Pipe Testing
40	Task	TNC	4 days	Thu 4/20/23	Tue 4/25/23	39	45,49	City
41	Task	Lay Water Main Tripoli Ct 300 ft	1 day	Fri 4/28/23	Fri 4/28/23	45	21	Pipe +
42	Task	Pressure Test X-V	1 day	Fri 5/5/23	Fri 5/5/23	49	43	Pipe Testing
43	Task	TNC	4 days	Mon 5/8/23	Thu 5/11/23	42	44	City
44	Task	Water Services Tripoli Ct (4)	1 day	Tue 5/16/23	Tue 5/16/23	48,43	69,50	Pipe, DeWitt
45	Task	Lay Water Main 167+40-164+40	2 days	Wed 4/26/23	Thu 4/27/23	59,40	46,41	Pipe +



Project: 12207 Cascade Water M
Date: Tue 3/21/23

Manual Progress

External Milestone

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Task

Split

Milestone

Summary

Project Summary

ID	Task Name	Task Mode	Duration	Start	Finish	Predecessors	Successors	Resource Names
46	Pressure Test V-T	Task	1 day	Fri 4/28/23	Fri 4/28/23	45	47	Pipe Testing
47	TNC	Task	4 days	Mon 5/1/23	Thu 5/4/23	46	48	City
48	Water Services (7)	Task	2 days	Fri 5/12/23	Mon 5/15/23	22,47	44	Pipe,DeWitt
49	Tie-in Tripoli Ct. to Tripoli St.	Task	1 day	Thu 5/4/23	Thu 5/4/23	21,40	42,62	Pipe +
50	Grade 5 Driveways	Task	1 day	Thu 5/18/23	Thu 5/18/23	44,25	51,54	Road
51	Pour 3 conc Driveways	Task	1 day	Fri 5/19/23	Fri 5/19/23	50	52	L&O
52	Driveway Cure Time	Task	3 days	Sat 5/20/23	Mon 5/22/23	51	53	
53	Pave 2 HMA Driveways	Task	1 day	Tue 5/23/23	Tue 5/23/23	52,24	56,55SS	Rieth-Riley
54	Grade patches at Tripoli Ct., Tuscany	Task	1 day	Fri 5/19/23	Fri 5/19/23	50	55,56	Road
55	Pave patches at Tripoli Ct., Tuscany	Task	1 day	Tue 5/23/23	Tue 5/23/23	53SS,54	56,110	Rieth-Riley
56	Topsoil Restoration	Task	2 days	Wed 5/24/23	Thu 5/25/23	53,55,54	57,106	Road
57	Landscaping	Task	5 days	Wed 5/31/23	Tue 6/6/23	56,67	113	NERC
58	Cimarron Drive 151+00-161+00	Task	29 days	Wed 4/19/23	Tue 5/30/23			
59	Lay Water Main 151+00-161+00	Task	5 days	Wed 4/19/23	Tue 4/25/23	38	60,45	Pipe +
60	Pressure Test S-U	Task	1 day	Wed 4/26/23	Wed 4/26/23	59	61	Pipe Testing
61	TNC	Task	4 days	Thu 4/27/23	Tue 5/2/23	60	62	City
62	Water Services (14)	Task	3 days	Fri 5/5/23	Tue 5/9/23	49,61	22,63	Pipe,DeWitt
63	Grade Driveways (7)	Task	1 day	Wed 5/10/23	Wed 5/10/23	62	64,23	Road
64	Pour Driveways (7 HMA)	Task	1 day	Thu 5/11/23	Thu 5/11/23	63	65,24	Rieth-Riley
65	Driveway Cure Time	Task	3 days	Fri 5/12/23	Sun 5/14/23	64	66	
66	Topsoil Restoration	Task	1 day	Mon 5/15/23	Mon 5/15/23	65,23	67,26,25	Road
67	Landscaping	Task	4 days	Wed 5/24/23	Tue 5/30/23	66,26	57	NERC
68	Tuscany Drive 146+20-139+10	Task	15 days	Wed 5/17/23	Wed 6/7/23			
69	Lay Water Main 146+20-139+10	Task	3 days	Wed 5/17/23	Fri 5/19/23	44	70	Pipe +
70	Tie in Tuscany to Burger	Task	1 day	Mon 5/22/23	Mon 5/22/23	69	71,79	Pipe +
71	Pressure Test C-T	Task	1 day	Tue 5/23/23	Tue 5/23/23	70	72	Pipe Testing
72	TNC	Task	4 days	Wed 5/24/23	Tue 5/30/23	71	73	City
73	Water Services	Task	3 days	Mon 6/5/23	Wed 6/7/23	72,104	81	Pipe
74	Tuscany Drive 139+10-130+00	Task	37 days	Tue 5/23/23	Mon 7/17/23			
75	Lay Water Main 139+00-135+95	Task	1 day	Wed 5/24/23	Wed 5/24/23	79	76,100	Pipe +
76	Pressure Test T-S	Task	1 day	Thu 5/25/23	Thu 5/25/23	75	77	Pipe Testing
77	TNC	Task	4 days	Fri 5/26/23	Thu 6/1/23	76	78	City
78	Water Services 139+00-135+95	Task	1 day	Tue 6/13/23	Tue 6/13/23	81,77	85	Pipe,DeWitt
79	Install Dewatering	Task	1 day	Tue 5/23/23	Tue 5/23/23	70	80,75	Pipe
80	Draw Down Time	Task	3 days	Wed 5/24/23	Fri 5/26/23	79	81	

Project: 12207 Cascade Water M
Date: Tue 3/21/23

Manual Progress

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Deadline

Critical

Critical Split

Progress

Manual Progress

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Successors	Resource Names
81	→	Lay Water Main 135+95-130+00	3 days	Thu 6/8/23	Mon 6/12/23	73,80	82,78	Pipe +
82	→	Pressure Test S-R	1 day	Tue 6/13/23	Tue 6/13/23	81	83	Pipe Testing
83	→	TNC	4 days	Wed 6/14/23	Mon 6/19/23	82	84	City
84	→	Water Services 135+90-130+00	4 days	Thu 6/22/23	Tue 6/27/23	83,115	86,91,119	Pipe,DeWitt
85	→	Tie in Tuscano to Tripoli St.	1 day	Wed 6/14/23	Wed 6/14/23	78	90SS	Pipe +
86	→	Grade Driveways (10)	2 days	Wed 6/28/23	Thu 6/29/23	84,112	87,91	Road
87	→	Pour Concrete Driveways (4)	1 day	Fri 6/30/23	Fri 6/30/23	86	88,89	L&O
88	→	Driveway Cure Time	3 days	Wed 7/5/23	Fri 7/7/23	87	94	
89	→	Pave 6 Driveways	1 day	Wed 7/5/23	Wed 7/5/23	87,111	92SS	Rieth-Riley
90	→	Tie in Cimarron Dr. to Tuscano	1 day	Wed 6/14/23	Wed 6/14/23	85SS	91,115	Pipe +
91	→	Grade patch at Cimarron	1 day	Fri 6/30/23	Fri 6/30/23	90,84,86	92,93	Road
92	→	Pave patch at Cimarron	1 day	Wed 7/5/23	Wed 7/5/23	91,89SS	93,141	Rieth-Riley
93	→	Topsoil Restoration	3 days	Thu 7/6/23	Mon 7/10/23	92,91	94,138	Road
94	→	Landscaping	5 days	Tue 7/11/23	Mon 7/17/23	93,88,113	171	NERC
95	→	Phase 2	102 days	Mon 5/1/23	Fri 9/22/23			
96	→	Burger Drive 23+50 - 9+00	32 days	Mon 5/1/23	Wed 6/14/23			
97	→	Lay Water Main 23+50 - 19+40	2 days	Mon 5/1/23	Tue 5/2/23	36	98,101	Pipe 2+
98	→	Pressure Test 23+50 - B	1 day	Wed 5/3/23	Wed 5/3/23	97	99	Pipe Testing
99	→	TNC	4 days	Thu 5/4/23	Tue 5/9/23	98	102,100	City
100	→	Water Services (6)	2 days	Thu 5/25/23	Fri 5/26/23	75,99	104	Pipe,DeWitt
101	→	Lay Water Main 19+40 - 9+00	4 days	Wed 5/3/23	Mon 5/8/23	97	105	Pipe 2+
102	→	Pressure Test A-B	1 day	Wed 5/10/23	Wed 5/10/23	99	103	Pipe Testing
103	→	TNC	4 days	Thu 5/11/23	Tue 5/16/23	102	104	City
104	→	Water Services (17)	4 days	Tue 5/30/23	Fri 6/2/23	103,100	106,73	Pipe,DeWitt
105	→	Storm Sewer 11+50, 19+60-23+50	2 days	Tue 5/9/23	Wed 5/10/23	101	106	Pipe 2
106	→	Grade 9 Driveways	1 day	Mon 6/5/23	Mon 6/5/23	104,56,105	108,107	Road
107	→	Grade patch at Burger/Tanglewood	1 day	Tue 6/6/23	Tue 6/6/23	106	111,112	Road
108	→	Pour 2 Concrete Driveways	1 day	Tue 6/6/23	Tue 6/6/23	106	109,110,112	L&O
109	→	Driveway Cure Time	3 days	Wed 6/7/23	Fri 6/9/23	108	113	
110	→	Pave 7 HMA Driveways	1 day	Wed 6/7/23	Wed 6/7/23	108,55	112,111	Rieth-Riley
111	→	Pave patch at Burger/Tanglewood	1 day	Thu 6/8/23	Thu 6/8/23	107,110	89	Rieth-Riley
112	→	Topsoil Restoration	2 days	Thu 6/8/23	Fri 6/9/23	110,108,107	113,86	Road
113	→	Landscaping	3 days	Mon 6/12/23	Wed 6/14/23	112,57,109	94	NERC
114	→	Tanglewood Drive 66+50 - 40+50	49 days	Thu 6/15/23	Thu 8/24/23			
115	→	Lay Water Main 66+50 - 56+25	5 days	Thu 6/15/23	Wed 6/21/23	90	116,84	Pipe +
116	→	Pressure Test 66+50-56+25	1 day	Thu 6/22/23	Thu 6/22/23	115	117	Pipe Testing
117	→	TNC	4 days	Fri 6/23/23	Wed 6/28/23	116	124	City

Project: 12207 Cascade Water M
Date: Tue 3/21/23

Manual Progress

Task

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tests

External Milestone

Deadline

Critical

Critical Split

Progress

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Successors	Resource Names	9, 23	Apr 16, 23	Apr 23, 23											
									M	T	W	T	F	S	S	M	T	W	T	F	S	S
154	Task	Jack and Bore 97+15 - 97+75	1 day	Tue 8/15/23	Tue 8/15/23	152,153	156	LOWE														
155	Task	Lay Water Main 92+90 - 97+15	2 days	Fri 8/11/23	Mon 8/14/23	153	156,188	Pipe +														
156	Task	Pressure Test	1 day	Wed 8/16/23	Wed 8/16/23	154,155	157	Pipe Testing														
157	Task	TNC	4 days	Thu 8/17/23	Tue 8/22/23	156	179	City														
158	Task	Water Services (5)	1 day	Fri 8/25/23	Fri 8/25/23	191	159	Pipe,DeWitt														
159	Task	Lay Water Main 87+00 - 92+90	3 days	Mon 8/28/23	Wed 8/30/23	158	160,178	Pipe +														
160	Task	Pressure Test N-M	1 day	Thu 8/31/23	Thu 8/31/23	159	161	Pipe Testing														
161	Task	TNC	4 days	Fri 9/1/23	Wed 9/6/23	160	162	City														
162	Task	Water Services (7)	2 days	Thu 9/7/23	Fri 9/8/23	178,161	164	Pipe,DeWitt														
163	Task	Tie in Tricklewood to Tanglewood	1 day	Mon 7/31/23	Mon 7/31/23	125,146	147,150	Pipe +														
164	Task	Grade 11 Driveways	1 day	Mon 9/11/23	Mon 9/11/23	162,197	165,168	Road														
165	Task	Pour 5 Concrete Driveways	1 day	Tue 9/12/23	Tue 9/12/23	164	166,167	L&O														
166	Task	Driveway Cure Time	5 days	Wed 9/13/23	Sun 9/17/23	165	172															
167	Task	Pave 6 HMA Driveways	1 day	Wed 9/13/23	Wed 9/13/23	165,196	169	Rieth-Riley														
168	Task	Grade patch at Tricklewood/Tanglewood	1 day	Tue 9/12/23	Tue 9/12/23	164	172	Road														
169	Task	Pave Patch at Tricklewood/Tanglewood	1 day	Thu 9/14/23	Thu 9/14/23	167	171,143	Rieth-Riley														
170	Task	Topsoil Restoration	1 day	Thu 8/10/23	Thu 8/10/23	149,138	144	Road														
171	Task	Landscaping Tricklewood 100+50 -105	1 day	Fri 8/11/23	Fri 8/11/23	170,94	173	NERC														
172	Task	Topsoil Restoration 100+50 - 87	2 days	Mon 9/18/23	Tue 9/19/23	166,168	173	Road														
173	Task	Landscaping	3 days	Wed 9/20/23	Fri 9/22/23	172,198	199	NERC														
174	Task	Tricklewood Court 109+00 - 116+50	13 days	Thu 8/17/23	Mon 9/4/23																	
175	Task	Lay Water Main	3 days	Thu 8/17/23	Mon 8/21/23	192	179	Pipe +														
176	Task	Pressure Test	1 day	Thu 8/24/23	Thu 8/24/23	179	177	Pipe Testing														
177	Task	TNC	4 days	Fri 8/25/23	Wed 8/30/23	176	178	City														
178	Task	Water Services (13)	3 days	Thu 8/31/23	Mon 9/4/23	159,177	162	Pipe,DeWitt														
179	Task	Tie-in Tricklewood Court to Tricklewood	1 day	Wed 8/23/23	Wed 8/23/23	157,175	176,191,180	Pipe +														
180	Task	Grade 4 Driveways	1 day	Thu 8/24/23	Thu 8/24/23	179,143	181,193	Road														
181	Task	Pour 1 Concrete Driveway	1 day	Fri 8/25/23	Fri 8/25/23	180	182,183	L&O														
182	Task	Driveway Cure Time	3 days	Sat 8/26/23	Mon 8/28/23	181	185															
183	Task	Pave 3 HMA Driveways	1 day	Mon 8/28/23	Mon 8/28/23	181,142	184SS	Rieth-Riley														
184	Task	Pour patch at Tricklewood/Tricklewood Court	1 day	Mon 8/28/23	Mon 8/28/23	183SS	196	Rieth-Riley														
185	Task	Topsoil Restoration	2 days	Tue 8/29/23	Wed 8/30/23	182,193	186,197	Road														
186	Task	Landscaping	2 days	Thu 8/31/23	Fri 9/1/23	185,144	198	NERC														
187	Task	Brookhills Court 120+00 - 123+00	17 days	Tue 8/15/23	Wed 9/6/23																	
188	Task	Lay Water Main	1 day	Tue 8/15/23	Tue 8/15/23	155	192	Pipe +														
189	Task	Pressure Test 120 - 123+00	1 day	Thu 8/17/23	Thu 8/17/23	192	190	Pipe Testing														

Project: 12207 Cascade Water M
Date: Tue 3/21/23

Task Split Milestone Summary Project Summary

Inactive Task Inactive Milestone Inactive Summary Manual Task Duration-only

Manual Summary Rollup Manual Summary Start-only Finish-only External Tasks

External Milestone Deadline Critical Critical Split Progress

Manual Progress

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Successors	Resource Names	9, '23	Apr 16, '23	Apr 23, '23	Apr										
									M	T	W	T	F	S	S	M	T	W	T	F	S	S
190		TNC	4 days	Fri 8/18/23	Wed 8/23/23	189	191	City														
191		Water Services (6)	1 day	Thu 8/24/23	Thu 8/24/23	179,190	158,193	Pipe,DeWitt														
192		Tie-in Brookhills Ct to Tricklewood	1 day	Wed 8/16/23	Wed 8/16/23	188	189,175	Pipe +														
193		Grade 2 Driveways, Patch	1 day	Fri 8/25/23	Fri 8/25/23	191,180	194,185	Road														
194		Pour 2 Concrete Driveways	1 day	Mon 8/28/23	Mon 8/28/23	193	195,196	L&O														
195		Driveway Cure Time	3 days	Tue 8/29/23	Thu 8/31/23	194	197															
196		Pave patch at Brookhills Court/Tricklewood	1 day	Tue 8/29/23	Tue 8/29/23	194,184	167	Rieth-Riley														
197		Topsoil Restoration	2 days	Fri 9/1/23	Mon 9/4/23	195,185	198,164	Road														
198		Landscaping	2 days	Tue 9/5/23	Wed 9/6/23	197,186	173	NERC														
199		Project Complete	0 days	Fri 9/22/23	Fri 9/22/23	173																



Project: 12207 Cascade Water M
Date: Tue 3/21/23
